。 1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,19

The influence of temperature on ... 5/589/62/000/062/009/011 E194/E136

instruments the error introduced by a pressure difference is in the opposite direction so that the two errors compensate at some point on the scale and by adjustment of the zero point the instrument may be made to read correctly at any desired part of

There is I figure.

ASSOCIATION: VNIIM

SUBMITTED: July 13, 1961.

Card 2/2

KREMLEUSKIY, P.P.; GONEK, N.F.; PEDAN, M.S.

Automatic continuous performance of two bell-type measuring tanks.

Izm.tekh. no.3:50-53 Mr 162. (MIRA 15:2)

(Flowmaters)

L 10723-63

BDS

ACCESSION NR: AF3002049

8/2589/62/000/066/0005/0013

AUTHOR: Gonek, N. F.; Kremlevskiy, P. P.; Pedan, M. S.

TITLE: Automatic calibrating gas-measuring davices 10

SOURCE: USSR. Komitet standartov, mer, i izmeritel'ny h priborov. Trudy institutov Komiteta, no. 66 (126), 1962. Issledovaniya v oblasti izmereniy davleniya, raskhoda i vakuuma, 5-13

TOPIC TAGS: calibrating gas-measuring devices, continuous flow of gas

ABSTRACT: An experimental automatic calibrating gas-measuring device with 2 continuously operating measuring tanks was found to substantially increase the threshold value of "checking" consumption. It is a particularly valuable device when used for certain types of research in that a continuous flow of gas is involved. Further work is suggested in the study of the metrological characteristics of these devices in order to determine threshold input values for given measuring tank capacities and with regard to a choice of the most efficient types of automatic equipment. Orig. art. has: 8 figures.

ASSOCIATION: VNIIM

SUBMITTED: 11Dec61

SUB CODE: 00 Card 1/1

DATE ACQ: 20Apr63 NO REF SOV: 000

ENCL: 00 OTHER & OOO

Panteleymon Petrovich, kand. tekhn.nauk; KREMIKYSKII,
Panteleymon Petrovich, kand. tekhn. nauk; OLZYNIK, Boris
Nikolayevich, kand. tekhn. nauk; CHECHURINA, Yekatirina
Nikolayevna, kand. tekhn. nauk; SHIROKOV, Konstantin
Pavlovich, kand. tekhn. nauk; BURDUN, G.D., prof., doktor
tekhn. nauk, retsenzent; RYSKO, S.Ya., red.izd-va;
MEDVEDEV, L.Ya., tekhn. red.

[Tables for the conversion of measurement units] Tablitsy perevoda edinits izmerenii. [By] M.G.Boguslavskii i dr. Moskva, Standartgiz, 1963. 116 p. (MIRA 16:12) (Weights and measures-Tables, etc.)

是一个人,我们就是一个人,我们就是这个人,我们就是这个人,我们就是一个人,我们就是这个人,我们就是我们的人,我们就是我们是我们就是我们的人,我们就是我们的人,我们 "我们是我们是我们就是我们我们是我们就是我们就是我们的,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们就是我们就是我们就是我们就是我们就是我

BOGUSLAVSKIY, Moisey Grigor yevich, kand. tekhn.nauk; KREMLEVSKIY, Panteleymon Petrovich, kand. tekhn. nauk; OLEYNIK, Boris Nikolayevich, kand. tekhn. nauk; CHECHURINA, Yekaterina Nikolayevna, kand. tekhn.nauk; SHIROKOV, Konstantin Pavlovich, kand. tekhn.nauk; BURDUN, G.D., doktor tekhn. nauk, retsenzent; RYSKO, S.Ya., red.izd-va; MEDVEDEV, L.Ya., tekhn. red.

[Tables for the conversion of measurement units] Tablitsy perevoda edinits izmerenii. [By] M.G.Boguslavskii i dr. Moskva, Standartgiz, 1963. 116 p. (MIRA 17:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. D.I.Mendeleyeva (for Boguslavskiy, Kremlevskiy, Oleynik, Chechurina, Shirokov).

AM4016107

BOOK EXPLOITATION

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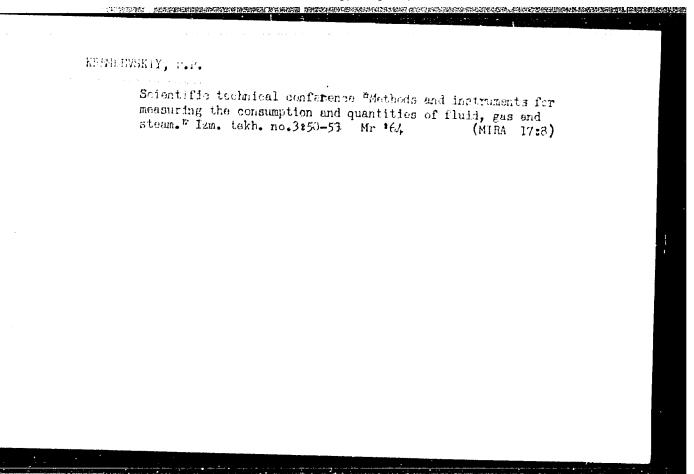
Kremlevskiy, P. P.

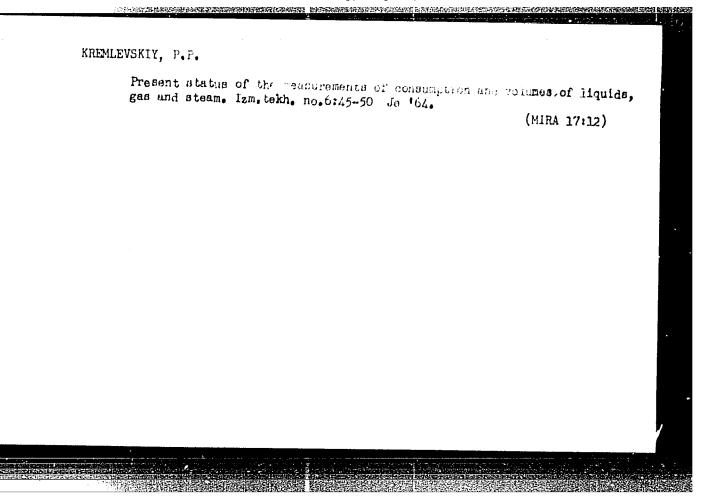
Flowmeters (Raskhodomery*), 2d ed., rev. and enl., Moscow, Mashgiz, 1963, 655 p., illus., biblio., Errata slip inserted. 8,000 copies printed.

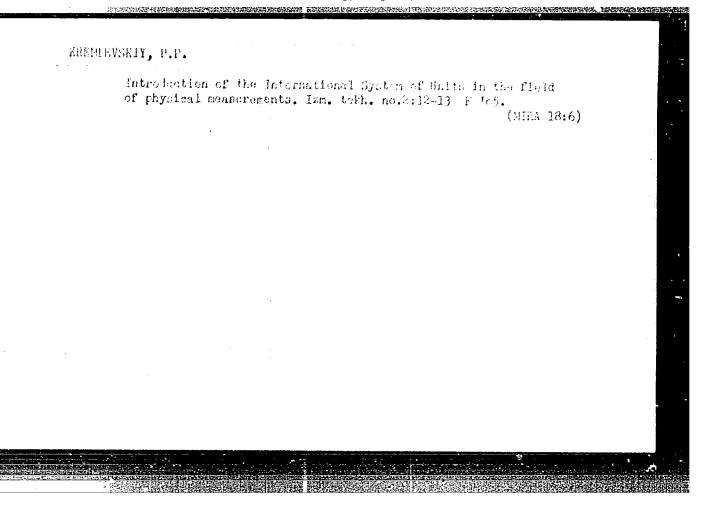
TOPIC TAGS: flowmeter, tachometric flowmeter, electromagnetic flowmeter, ultrasonic flowmeter, calorimetric flowmeter, thermoanemometric flowmeter, ionization flowmeter, nuclear magnetic resonance flowmeter, partial flowmeter, spring differential manometer, compensation differential manometer, liquid differential manometer, floating differential manometer, bell differential manometer

PURPOSE AND COVERAGE: The book gives the theoretical bases and a critical analysis of the operation of industrial devices for measuring the consumption of a liquid, gas, or vapor. Meters of a variable drop in pressure, a variable level, flow (constant drop in pressure, floating, spring, vane), activated flow, tachometric, electromagnetic, ultrasonic, calorimetric, thermoanemometric, ionization, nuclear magnetic resonance, partial, and others are considered. The book is intended for engineers and technicians who design and use flowmeters.

Cord 7-/3







Automatic continuous gas meter units for constitut mas flows up to 0,622 m//sec. and up to 0,42 m3/sec. i.m. tech. nc.4: 36-39 Ap 165. (MEM 18:7)

KREMLEVSKIY, P.P.

Terminology for elements of complex measuring instruments. Standartizatelia 29 no.10:53-55 0 165. (MIRA 18:12)

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826410

 $\frac{L}{31976-66} = \frac{EVT(d)}{EEC(k)-2/EVP(v)} \frac{1}{T/EVP(k)} \frac{1}{EVP(h)} \frac{1}{EVP(h)}$

ACC NR: AP6010866

SOURCE CODE: UR/0115/66/000/002/0019/0022

AUTHOR: Kremlevskiy, P. P.; Gonek, N. F.

300 B

ORG: none

TITLE: Dynamic characteristics of measuring instruments |

SOURCE: Izmeritel'naya tekhnika, no. 2, 1966, 19-22

TOPIC TAGS: measuring instrument, measurement, SCIENTIFIC STANDARD

ABSTRACT: There has been no uniformity in criteria and terms used in various Soviet Standards for describing dynamic characteristics of measuring instruments. These terms and their definitions used in various Standards are cited: "thermo-couple inertness," "thermal inertia factor," "thermal inertia," "transient time," and "delay constant." Most Standards specify the "sluggishness time" as the only criterion for dynamic characteristics; this is acceptable if the transient

Card 1/2

UDC: 621.1/2.087.44

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L 31976-66

ACC NR: AP6010866

process is describable by a first-order linear equation. Any, however complicated, measuring instrument can be approximately described by an n-order differential equation. Two quantities are recommended for evaluating the dynamic properties of an instrument: time constant T₁ and order of the equation n. The latter determines the initial, the most important, part of the transient response curve; the time constant characterizes the rest of the curve. It is theoretically proven that these two quantities adequately describe the dynamic properties of any aperiodic system, such as a thermoelectric pyrometer, thermometer, manometer, or impulse-tube differential manometer. Orig. art. has: 2 figures, 12 formulas, and 1 table.

SUB CCDF: 13, 09 / SUBM DATE: none / ORIG REF: 002

Card 2/2 2C

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9.2520 (1020, 1024, 1154)

8/112/59/000/012/086/097 A052/A001

Translation from, Referativnyy zhurnal, Elektrotekhnika, 1959, No. 12, pp. 254-

AUTHORS:

Kremlevskiy, V., Yue Chzhen -u

TITLE:

Transistorized Direct Current Amplifier

PERIODICAL:

Sb. nauchno-issled. rabot stud. Elektromekhan. fak. Leningr. poli-

tekhn. in-t, 1958, No. 3, pp. 75-79

A description and calculation of the circuit of a direct current TEXT: transistorized amplifier, executed as an attachment to the MNO-2 (MPO-2) oscillograph or to a pointer-type instrument, are given. The amplifier is assembled on TA (PIA) triodes for the signal amplification from thermocouple within the Trange of 0-8 millivolts. The drift of the amplifier is 5 millivolt/hour. The amplifier is supplied from the network of 127 volts, 50 cycles. It is proposed to connect, instead of the usual capacitor, in the filter parallel to the load a transistor through which the variable component of the rectified voltage is

Card 1/2

86140

Transistorized Direct Current Amplifier

S/112/59/000/012/086/097 A052/A001

passed. An experimental check has shown that at a pulsation in the input of 10% the pulsation in the output is 0.05%, that is the smoothing factor is 200.

X

V.M.L.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

SHE TENED THE PERSON NAMED IN THE

S/196/61/000/006/003/014 24,5600 (1482,1537,1137) E073/E535

AUTHORS:

Brodskiy, A.D., Kremlevskiy, V.P., Savateyev, A.V.

TITLE:

New methods of realizing the thermodynamic scale

in the range of low temperatures

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, 1961, No.6, pp.3-4, abstract 6G23. (Tr. in-tov Kom-ta standartov mer i izmerit. priborov pri Sov. Min. SSSR.

1960, Issue 49, (109), 24-29)

TEXT: The paper deals with work on realizing a thermodynamic scale at low temperatures by the method of an electroacoustic gas thermometer and the method of counting thermal noise voltage pulses. Realization of the thermodynamic temperature scale by means of the electroacoustic gas thermometer is based on the dependence of the temperature of the resonant frequency of the oscillations of the sound wave in an acoustic tubular resonator. The realization by means of a thermal noise thermometer is based on the temperature dependence of the number of noise voltage pulses, the amplitude of which exceeds a given discrimination threshold. In the applied methods, measurement of the temperature is realized by means of

Card 1/2

New methods of realizing the ...

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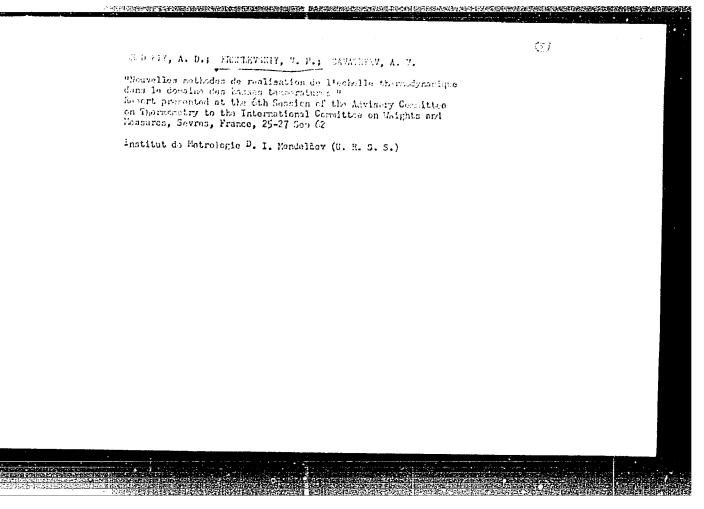
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frequency measuring instruments, as a result of which a high sensitivity is achieved which increases with decreasing temperature. Basic circuits are given for both systems and also the results of measuring the boiling temperature of hydrogen and oxygen. It is pointed out that although the obtained results are in good agreement with the data of the international temperature scale, they are preliminary, since the influence of systematic errors on the measured results has not been adequately studied. Work is continuing on improving the accuracy of the thermodynamic temperature scale in the range 4-273°K by means of the electroacoustic gas thermometer and the thermal noise thermometer methods and work excluding systematic errors. 3 references.

Abstracted by L. Boronina.

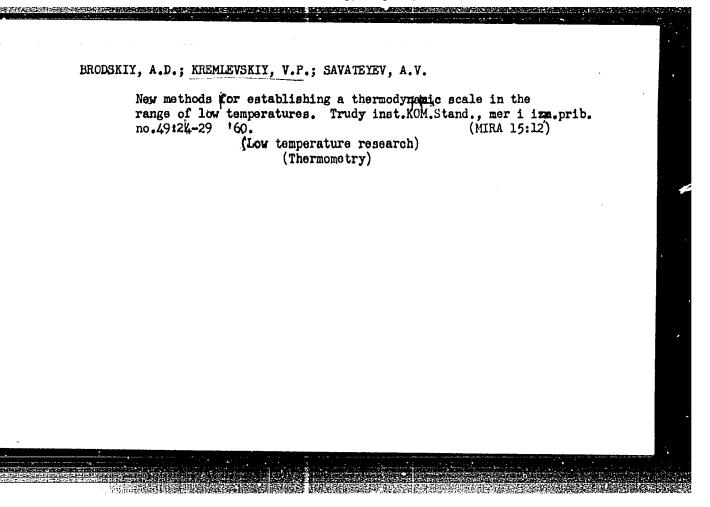
[Abstractor's Note: Complete translation.]

Card 2/2



BRODSKIY, A.D.; KREMLEVSKIY, V.P.; SAVATEYEV, A.V.

New methods for establishing a thermodynamic low-temperature scale. Izm.tekh. no.9:35-36 S '62. (MIRA 15:11) (Thermometry)



KREMLICKA, Ludvik

Rapid cataract development in bilateral uveitis. J. Hyg. Epidem., Praha 3 no.2:219-222 1959

1. II. ocni klinika fakulty vseobecneho lekarstvi University Karlovy v Praze, prednosta akademik J. Kurz. Ocni oddeleni UDL na Bulovce, prednosta doc. dr. P.V. Michal.

(UVEITIS, compl)

(UVMITIS, compl) (CATARACT, case reports)

KREMLICKA, Ludvik

Metastatic carcinoma of the iris, Cesk.ofth.17 no.2:141-147 Mr 161.

1. Ocni oddeleni nemocnice na Bulovce v Praze, Klinicka zakladna UDL, prednosta doc. MUDr. F.V. Michal.

(IRIS neopl)

(CARCINOMA case reports)

KREMLICKA, L.

Diagnostic difficulties in choroid angioma. Cesk. oftal. 18 no.6: 422-427 N '62.

TO THE PROPERTY OF THE PROPERT

l. Ocni oddeleni nemocnice na Bulovce, klinicka sakladna Ustavu pro doskolovani lekaru v Praze, prednosta doc. dr. P. Michal. (CHOROID NEOPLASMS) (HEMANGIOMA)

CEJKA, Milan; KREMLICKOVA, Jitka

Determining gasoline vapors in the air by indicator tubes. Ropa a while 6 no.11:345 N .64.

1. Benzina National Enterprise, Department of Lubrication and Fuel Technology, Prague.

New method for cutting shoe upper parts. Kozh.-obuv.prom. 5 no.10:35-36 0 '63. (MIRA 17:4)

CANADASTE AMERICANA PROPERTIES AND PROPERTIES OF THE PROPERTY OF THE PROPERTY

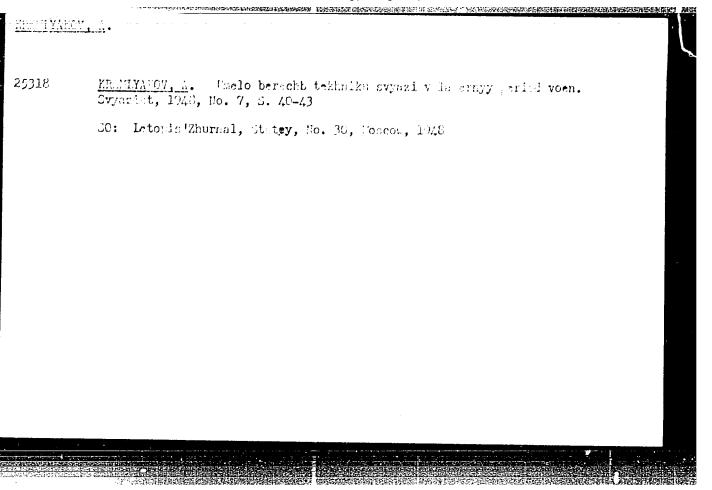
RABINOVICH, Moisey Markovich; RUL'KOV, Dmitriy Ivanovich;

KREMLYANSKIY, A.N., red.; VOLCHOK, K.M., tekhn. red.

[Principles of navigation at sea and on lakes] Osnovy morskogo i ozernogo sudovozhdenila; sbornik zadach. Leningrad,
Izd-vo "Rechnoi transport," 1962. 158 p. (MIRA 16:5)

(Navigation--Problems, exercises, etc.)

。 1987年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1 Finance . Reflect a Company Statement. The THE MY, Esit, Det Brangest Court Lotty Court of the part of the controlly (Sp. For. Casti o. Forth Libert English). Cortal Lean. Fillioubin Processor Paris in Jammitee." Andrews .. 1970-01 he (1) ap. 701 104, 70 Ll. A War 1960, parts 2051. A. supplying [American Burgarian summary modifical] incommon regers the convenie of three soule fractionsess bilitation determinations in paredic or defferent resultary. The results processed are recei on TW climically quarified edicts. In the progressive stage of the classic the ratio of sor in this rution fractions he characteristic of the medical pleasure and coffeet and implie state of equilibrium of the pile recording characteristic surjustition, was cause of the Practions & Losentine by the surfect of conjugation in 1871 Mency which depends on the cause of Japanasco and manifests is olf unicly to the ampolitions of the locarceld association. The oder wearen confidency andar a correlation with to decree or liver lesion. When the exceeded of the total bilitrumin darums recovery . . Tokum otra conjugation is the one inflamation by the authors, he length : I leave in Paracina religioners. 1 1



KRHMLYANSKIY, Aleksandr, Mikolavavich; KHLEBNIKOV, L.L., redaktor; SEMENOVA,

K.H., redaktor izdatel stva; Tirhohova, Ye.A., tekhnicheskiy redaktor

[Manual for the ship's handler] Pamiatnaia knizhka sudovoditelia.

Moskva, Izd-vo "Morakoi transport," 1956. 229 p. (MIRA 10:2)

(Seamanship)

KREMLYANSKIY, A.N.; SAVEL'YEV, A.A., red.; DIZHUR, I.M., red.;

TIKHOHOVA, Ye.A., tekhn.red.

[Shiphandler's handbook] Pamiatneia knizhka sudovoditelia.
Pod red. A.A.Savel'eva. Izd.3., rasshirennee i dop. Moskva,
Izd-vo "Morskoi transport," 1958. 421 p. (MIRA 12:9)

(Ship handling-Handbooks, manuals, etc.)

KREMLYANSKIY, Aleksandr Nikolayevich, kapitan dal'nego playaniya;
STÜPÄKÖVÄ, L.A., red.; TIKHONOVÄ, Ye.A., tekhn. red.

[Ship captain's guide] Pamiatnaia knizhka sudovoditelia. 4. izd.
Moskva, Izd-vo "Morskoi transport," 1962. 440 p. (MIRA 15:6)

(Shipping—Handbooks, manuals, etc.)

AVAZOV, T.N.; KHERWAR, A.M.; KHAIFAROV, S.

Phenols in the formation waters of the Gazli gas and oil field and adjacent areas. Dokl. AN Uz. SSR 21 no. 11:46-49 164.

(MIAM 18:12)

1. Institut geologii i razratotki neftyanykh i gazovykh mestorozhdeniy Gosudarstvennogo geologicheskogo komiteta SSSR.

Submitted June 21, 1963.

Tremmer, I

RUMANIA/Theoretical Physics

P-5

Abs Jour

: Referat Zhur - Fizika, No 5, 1957, No 10877

Author

Borneas, M., Kremmer, I.

Inst

: 0

Title

The Use of Poly-Operators.

Orig Pub

: Studii si cercetari stiint. Acad. RPR. Baza Timisoara

Ser. 1, 1955, 2, No 1-4, 51-58

Abstract

: The concept of the poly-operator, introduced by one of the authors earlier (Bornes, M., Studii si cercetari stiint. Acad. RPR, Baza Timisoara, 1953) are formulated in the following manner. The poly-operator B is decermined by the matrix B_{ik}, which satisfies the relation

 $(\hat{B} \psi)_i = \hat{B}_{ik} \psi_k$, where $\psi_k = \psi(x,t,s_k)$ are values

Card 1/2

RUMANIA/Theoretical Physics

B-5

Abs Jour

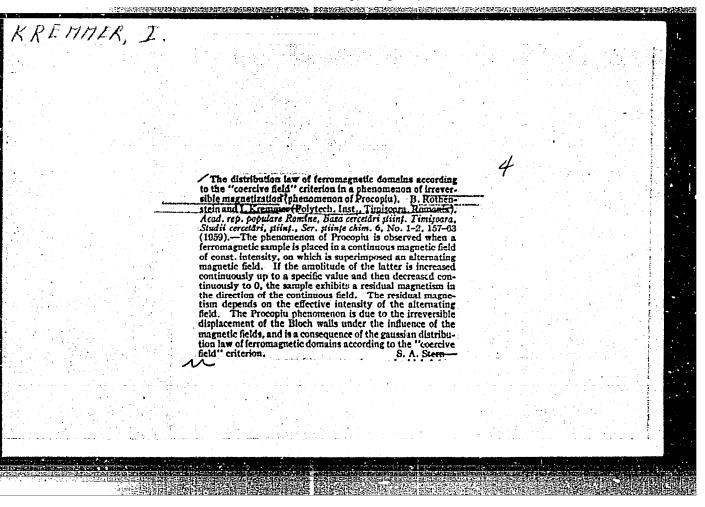
: Referat Zhur - Fizika, No 5, 1957, No 10877

assumed by the wave function ψ (x, t, s) of a system with an internal degree of freedom s. Using this concept, the authors establish the poly-operator form of the Dirac equation, which differs substantially from the usual one in view of the diagonal nature of the momentum poly-operator

Ž P

Next, the authors find the poly-equation for a particle with negative mass and calculate the energy of the non-relativistic magnetic electron in an external magnetic field. In conclusion, considerations that relate the method of poly-operators with the method of associated matrices are raised.

Card 2/2



ROTHENSTEIN, B.; KREMMER, I. An apparatus for measuring the coercive field of the test pieces taking part in an electrochemical process. Studii mat Timisoara 7 no.1/2: 205-207 Ja-Je '60. (EEAI 10:4) (Goercive force (Magnetic)) (Magnetometer) (Hydrogen) (Magnetism) (Electrolysis)

NADASAN, St.; ROTHENSTEIN, B.; HOROVITZ, B.; SAFTA, V.; KREMÆR, I.; GOLEA, A.

Influence of cathodic hydrogen on the fatigue resistance of carbon steel covered with nickel by electrolytic method. Studii tehn Timisoara 10 no.2:241-247 J1-D '63.

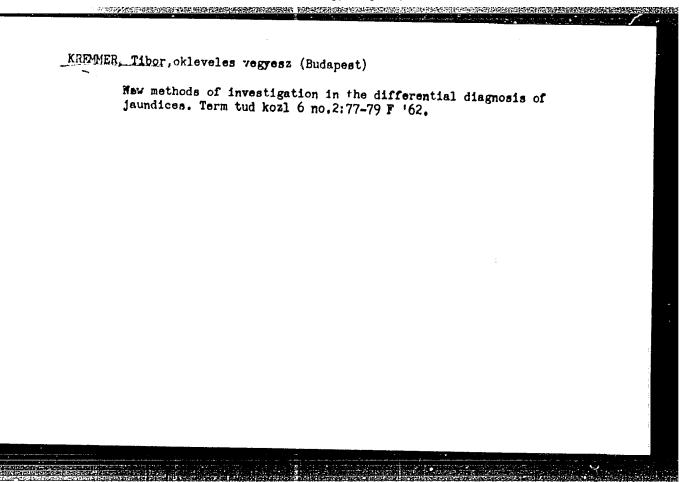
HOROVIT2, Bernard, conf. ing.; KREMER, Josif, ing.

Experimental determination of the equivalent bonding clasticity module of v-belts. Industria uscara 11 no.6:300-303 Je '64.

KERTESZ, Tivadar, dr.; KREMMER, Tibor, vegyeszmernok; ROTTER, Lilian K., dr.; FERENCZY, Edit. dr.

Determination of serum glutamic oxalic acid transaminase in myo-cardial infarct. Orv.hetil. 101 no.45:1596-1599 6 N '60.

1. Fovarosi Uzsoki u. Korhaz Laboratoriuma.
(MYOCARDIAL INFARCT blood)
(TRANSAMINASES blood)



KREMMER, Tibor, okl. vogyesz; Fenency, Edit, dr.; HORVATH, Forenc, dr.

Direct bilirubin. (Preliminary communication). Magy Belorv. arch. 15 no.3:110-111 Je '62.

1. Fovarosi Uzsoki-utcai Korhaz Laboratoriuma es I. sz. Bel Osztalya. (BILIRUBIN)

KREMMER, Tibor, okl. vegyesz; FERENCZY, Edit, dr.

Value of fractional bilirubin determination in differential diagnosis of jaundice. Orv. hetil. 103 no.27:1262-1266 8 J1 162.

1. Bp. Fov. Uzsoki u. Korhaz, Laboratorium.

(JAUNDICE diag) (BILIRUBIN chem)

KREMMER, Tibor, okl. vegyesz; FERENCZY, Edit, dr.

Serial examination of serum bilirubin fractions in jaundice. Orv. hetil. 104 no.11:482-492 17 Mr '63.

1. Bp. Fov. Uzsoki u Korhaz Laboratorium.
(BILIRUBIN) (JAUNDICE, OBSTRUCTIVE) (HEPATITIS, INFECTIOUS)
(CHOLELITHIASIS) (LIVER CIRRHOSIS) (BLOOD CHEMICAL ANALYSIS)

HUNGARY "

KREMMER, Tibor, dipl. chemist, FERENCZY, Plit. Dr.; Capital City Uzsoki Street Hospital (Fovarosi Uzsoki Utcai Korhaz), Laboratory.

"Determination of Serum P-Lipoids in Cases of Jaundice. Evaluation of the Jirgl Test (Preliminary Communication)."

Budapest, Orvosi Hetilap, Vol 104, No 30, 28 July 63, p 1408.

Abstract: [Authors' Hungarian summary] The Jirgl test is the first relatively simple liver function test which indicates the specific, selective disturbance in the lipoid-protein metabolism in jaundice. This specificity limits the favorable evaluation of the test diagnostically in cases of occlusion of the choledochus and calls attention to the general phenomenon of jaundice. 5 Western, 3 Hungarian references.

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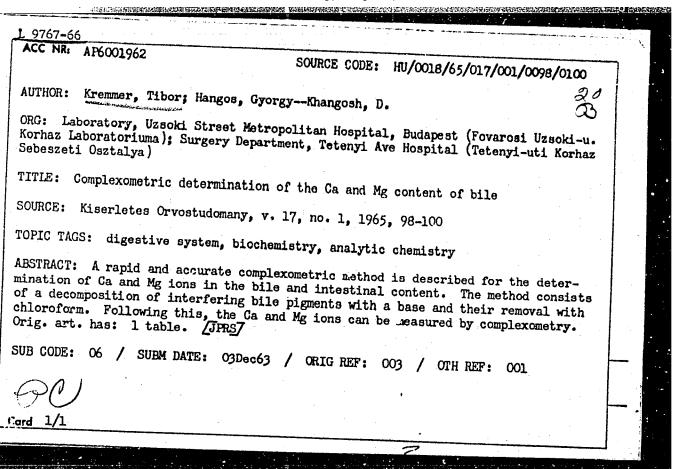
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KREMER, Tibor, okleveles vegyesz; FERENCZY, Edit, dr.

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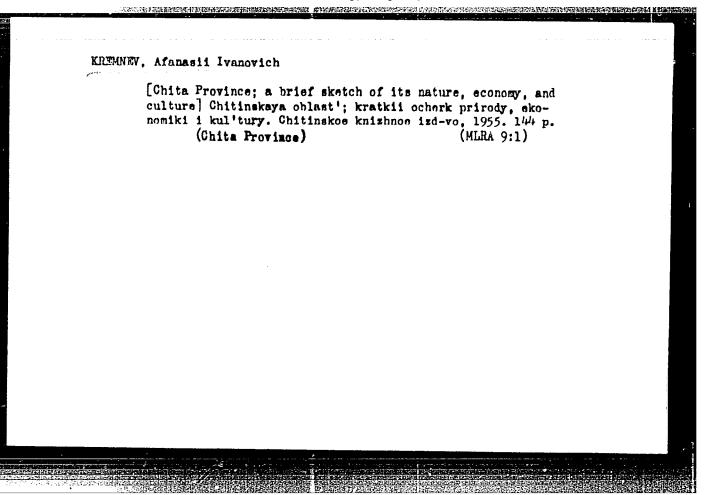
Study of serum lipoproteins in joundice. The role of abnormal lipoproteins in the Jirgl test. Orv. hetil. 106 no.9:405-407 28 F '65

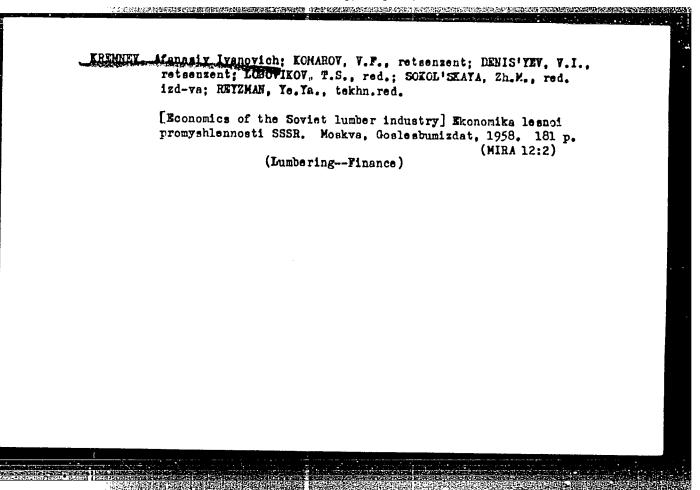
1. Fovarosi Uzsoki utcai Korhaz, Laboratoriuma (Osztalyvezeto foorvos: Kertesz, Tivadar, dr.).



Coefficient of unsteady heat exchange in blind passages of mines with fluctuating temperature of the ventilation air [with summary in English]. Dop.AN URSR no.3:307-310 '61. (MIRA 14:3)

1. Institut teploenergetiki AN USSR. Predstavlono akademikom AN USSR A.N.Shcherbanem. (Mine ventilation)





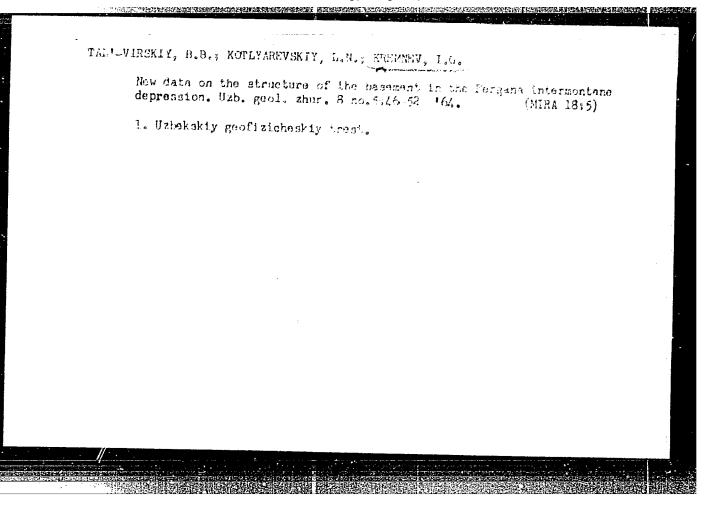
KREMNEY, Afensely Ivanovich; MOROZOV, N., red. [deceased]; YURGANOVA, M., tekhn.red.

[Chita Province; brief study of the nature, economy and culture]
Chitinskaia oblast'; kratkii ocherk prirody, ekonomiki i kul'tury.
Chita, Chitinskoe knizhnoe izd-vo, 1959. 158 p. (MIRA 12:12)
(Chita Province)

KCTLYALEVORIY, L.C.; HATTLY, L.G.

Using the higher circum ATAL3 agreement outer in the solution of good of solutions in Usbekistan. Ensuel. 1 okin. node. 30 no.6:36-39 do tol. (HEA 17:10)

1. Usbekisky geoficiolastiy troat.



ENT(1)/FOC/EEC(t)/EWA(h) Po-4/P1-4/Peb GM ACCESSION NR: AR5003630 8/0169/64/000/011/D023/D023 SOURCE: Ref. zh. Geofizika, Abs. 11D150 AUTHORS: Kotlyarevskiy, L. N.; Kremnev, I. G. TITLE: Results of experiments with the AM-13 high-precision aero-CITED SOURCE: Sb. Geofiz. priborostr., Vyp. 18. L., Nedra, 1964, 115-118 TOPIC TAGS: magnetometer, aerial magnetic surveying/AM-13 TRANSLATION: A brief report is presented of experimental work with the AM-13 aeromagnetometer, carried out in 1960--1961 by the aeromagnetic party of Uzbekskiy geofizicheskiy trest (Uzbek Geophysical Trust). The investigations have shown that in order to exclude the deviation noise it is advantageous to do the measurements with a Card 1/2

L 27861-65 ACCESSION NR: ARS003630								
shown it is	ndola cable 2025 meters long. A connection is established be- een the variational curve of and the null-drift curve. It is own that if of the variations is correctly taken into account, is possible to plot the magnetic field relative to the control ute without using reference and secant routes. A. Lozinskaya.							
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KREMNEV, L. S., (Engr.); RAKHSHTADT, A. G. (Cand. Tech. Sci.; Docent);

"A Method of Determining Energy Dissipation in Elastic Vibrations," Termicheskaya obrabotka i prochmost' metallov i splavov; sbornik statey (Heat Treatment and Strength of Metals and Alloys; Collection Articles) Moscow, Mashgiz, 1958, 177 p.

A new method if proposed for determining the energy dissipation in the vibrations of a specimen fized at one end in a test stand designed by S. O. TSORKALLO. The method is based on the determination of the path of motion of the specimen. The authors obtain equations that give the relationship between the elastic energy stored in the specimen, the amplitude of vibrations theamount of energy dissipated, and the damping factor. The equations further account for the magnitude of working stresses imposed on the specimens and also determine energy dissipstion per cycle, which is not obtainable ordinarily with the damping factor alone. These considerations, when applied to N36KhTYu steel, show that dissipated energy per cucle as a function of stress loading rises with increased stress, which is explained as the effect of microplastic deformation. At the same time, the higher the resistance of the metal to small plastic deformations, i. e., the higher the elastic limit, the smalller the dissipation increment. In particular, minimum values for the dissipation increment and its rate of increase are observed in specimens tested after hardening from a temperature of 950°C. and aging to 700°for 2 hours, when their elastic limit is at its maximum.

GELLER, Yu. A.; KREMNEV, L.S.; OIESOVA, TS.L.

Rapid steel with reduced carbide heterogeneity. Metalloved. i term. obr. met. no.6:25-35 Je '61. (MIRA 14:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy instrumental'nyy institut. (Tool steel--Metallography)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008264100

S/148/61/000/009/010/012 E193/E383

AUTHORS: Kremnev, L.S. and Geller, Yu.A.

TITLE: The effect of small additions of titanium and

nitrogen on the properties of high-speed cutting steel

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya, no. 9, 1961, 129 - 137

TEXT: The main problem in producing the standard PNS (R18) and p9 (R9) high-speed cutting steels is to attain uniform distribution of carbides on which the uniformity of the grain size depends. Satisfactory distribution of carbides can be

ensured by reducing the tungsten and chromium content so as to reduce the proportion of free carbides without decreasing the quantity of these elements in the solid solution. Steels of this type, however, show a tendency to excessive grain growth. This effect can be prevented by increasing the V content to 2 - 2.5%; in this case, however, steel becomes difficult to grind, which causes considerable difficulties in the fabrication

of tools of complex shape. The object of the present investigation was to study the possibility of overcoming these

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difficulties by the addition of elements which would inhibit grain growth of steel during pre-hardening heating without increasing the free-carbide content. Ti (a carbide-forming element) and N, which forms stable nitrides, were used for this purpose. The chemical analysis of the experimental alloys is given in a table. The maximum quantity of N was 0.01 - 0.02 - 0.03%. Several conclusions were reached.

- 1) Addition of 0.1 0.2% Ti or 0.02 0.03% N with 0.1 0.2% Al inhibits grain growth of medium-tungsten content, high-speed cutting steel, decreases its sensitivity to overheating and increases its strength.
- 2) The effect of Ti as a grain refining and strengthening addition is more pronounced that that of nitrogen. In Fig. 3, constructed for specimens quenched from various temperatures and tempered (three times) for 1 hour at 550 °C, the bending

strength (o, kg/mm²) is plotted against the quenghing temperature (°C), Curves 2 and 1 relating, respectively, to steel without Ti and with 0.26% Ti. In fig. 7 (constructed for similarly heat-treated specimens) of is plotted against the quenching Card 2/6 U

The effect of

S/148/61/000/009/010/012 E193/E383

temperature (°C), Curves 1 and 2 relating, respectively, to steel containing Ti and N additions. 3) The proportion of residual austenite unaffected by addition of N is decreased by the addition of Ti to an extent, illustrated in Fig. 4a, where the proportion of residual austenite (A, %) is plotted against the hardness temperature (°C) for steel containing 3% Cr and no Ti (top curve), steel with 3% Cr and 0.26% Ti (dotted curve with an inflection point), steel with 2.68% Cr and no Ti (horizontal dotted curve) and steel with 2.67% Cr and 0.16% Ti (bottom curve). 4) The quantity of residual austenite in a hardened steel depends not only on the composition of austenite but also on its grain size attained during heating prior to hardening. With increasing grain size the stability of austenite increases and so does the quantity of residual austenite. It is for this reason that the proportion of residual austenite is reduced in the presence of Ti but is not affected by additions of N.

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S/148/61/000/009/010/012 E193/E383

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There are 11 figures, 1 table and 5 references: 4 Soviet-bloc and 1 non-Soviet-bloc. The English-language reference is: Ref. 4 - A. Carter, Journal Iron and Steel Inst., 83, 11, 1955.

ASSOCIATION:

Moskovskiy stankoinstrumental nyy institut

(Moscow Machine and Instrument Institute)

SUBMITTED:

February 3, 1961

Card 4/4

S/148/61/000/011/010/018 E111/E480

AUTHORS:

Geller, Yu.A., Kremnev, L.S.

TITLE:

The effect of chromium on the properties of high-speed

cutting steel

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya

metallurgiya, no.11, 1961, 129-136

There is evidence that chromium has an appreciable effect on the working and properties of high-speed steel. The chromium content of such steels is fixed within the same range (4 to 4.5%) in the USSR and abroad for all grades, irrespective of wide variations in tungsten, molybdenum and vanadium concentrations. Work reported on the effect of chromium on the cutting properties (Ref.2: H. Peltzgutter. Stahl u. Eisen, H. 12, 1924) and hardenability (Ref.4: E. Gudremon. Special steels. v.11, Metallurgizdat, 1959) or on the phase composition (Ref.6: N.T.Chebotarev, Izv. AN SSSR, Seriya fizicheskaya, no.1, 1951; Ref.8: F.Kaiser, M.Cohen, Metal Progress, no.6, 1952) does not fully represent the influence of this element. Nor does it enable the optimum chromium content to be found for various contents of other elements, especially tungsten. To study this problem, the Card 1/4

The effect of chromium ...

S/148/61/000/011/010/018 E111/E480

authors investigated steels with 3.63 to 18% W, up to 4.2% Cr, 0.72 to 0.88% C and 1.0 to 1.7% V. These were induction melted, cast into 12 kg ingots and forged into 12 x 12 mm bars. various heat treatments, phase analysis, solid-solution analysis, hardness measurements and determination of cutting properties and carbide distribution were carried out. The authors draw the following conclusions. In high-speed steel, chromium affects various transformations taking place during hardening and heat treatment, its influence is therefore very complex. Its main effect is on high-temperature transformations preceding quenching, As it is present in the form of a complex tungsten carbide, it lowers the solubility of this carbide in the austenite; higher the chromium content in the carbide (and therefore in the steel), the greater the effect. Steels with less than 8 to 10% tungsten, in which grain growth begins at lower temperatures, require more chromium to obtain saturation of the solid solution with tungsten while keeping the grain small. The tungsten carbides precipitated on tempering form in larger quantities at lower temperatures and also coagulate at a somewhat reduced heating temperature if they contain more chromium, It is for Card 2/4

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The effect of chromium ...

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this reason that, in steels with up to 8-10% W, the secondary hardness is raised but red hardness is reduced by chromium. Chromium hinders the transformation of the complex tungsten carbide into the simpler one insoluble in austenite. However, it increases carbide heterogeneity in steel with a higher carbide content (more tungsten) and this impairs strength, At the same time, chromium improves hardenability because it promotes a fuller solution of tungsten carbides and the formation of chromium carbides which go into solid solution on heating to 1100 - 1150°C. For improving the properties of high-speed cutting steel, the chromium content should be fixed in relation to that of tungsten. With up to 10% W, about 4% Cr is required to saturate the solid solution at lower temperatures, thus keeping the grains small, and to obtain a high secondary hardness. In steels containing over 10 to 12% W, the chromium content should be reduced to 3% in order to retain a fine grain size on high-temperature heating and to reduce carbide heterogeneity, increase strength and red hardness, There are 8 figures, 2 tables and 11 references: 8 Soviet-bloc and 3 non-Soviet-bloc. The two references to English language publications read as follows: Ref.1: P. Malkiewiez. Journ. Iron Card 3/4

s/148/61/000/011/010/018 The effect of chromium ... E111/E480

and Steel Inst., v.193, 1959, 1; Ref.8: as quoted in text.

ASSOCIATION: Moskovskiy stanko-instrumental nyy institut (Moscow Institute of Machine Tools and Instruments)

SUBMITTED: April 4, 1961

Card 4/4

CIA-RDP86-00513R0008264100 APPROVED FOR RELEASE: Monday, July 31, 2000

ACCESSION NR: AP4019814

5/0279/64/000/001/0136/0142

AUTHORS: Kremnev, L. S. (Moscow); Geller, Yu. A. (Moscow)

TITLE: Tungsten effect on the properties of high speed steels

SOURCE: AN SSSR. Izv. Metallurgiya i gornoye delo, no. 1, 1964, 136-142

TOPIC TAGS: steel, high-speed steel, tungsten, vanadium, WV stool, steel grain size, carbide phase in steel, WV effect on carbide, M₆C content in steel, VC content in steel, P18 high speed steel

ABSTRACT: Experiments were performed to study the effect of tungsten on the properties of high-speed steels, particularly its effect on the grain size and on the quantity of carbide phase. The samples contained 4-18% W. It was established that the steel properties do not bear a direct linear relation to W content. There were two characteristic W concentrations in steels; one of 12-13%, the other of 7-8% (at 1.5% vanadium). Steels with 12-13% W contained a carbide phase MgC rich in W in the presence of vanadium; steels with 18% W and free of vanadium also contained this phase. The increase in W content from 12 to 18% did not change substantially the quantity of MgC. Experiments showed that the greatest

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ACCESSION NR: AP4019814

quantity of vanadium was dissolved in M₆C of the 12-13W steels in which the quantity of solid vanadium carbide VC was small. For this reason hot strength of vanadium-bearing high-speed steels reaches its maximum at 12-13% of W concentration. The technical properties of steel containing 12-13% W and 1.5-1.9% of V did not differ from those of the common Pl8 steel. Tungsten concentration of 7-8% was the necessary minimum for achieving the secondary hardness in high-speed steels. Steel of this type may be used as a substitute for Pl8 steel in producing cutting tools for work under light cutting loads. Orig. art. has: 1 table and 6 figures.

ASSOCIATION: none

SUEMITTED: 10Jul63

DATE ACQ: 31Mar64

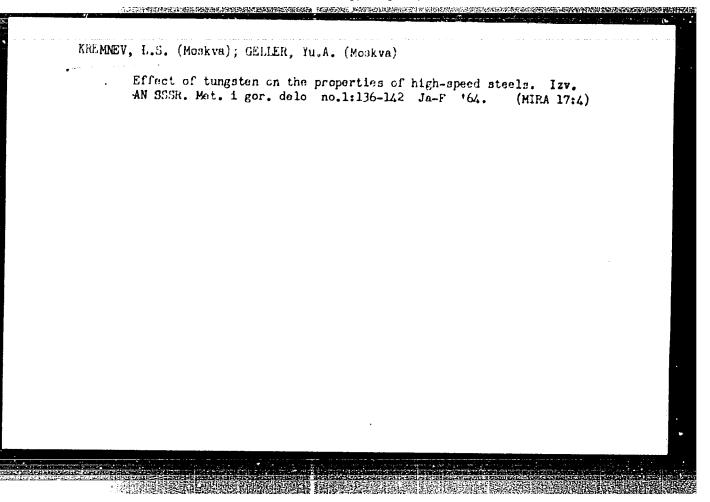
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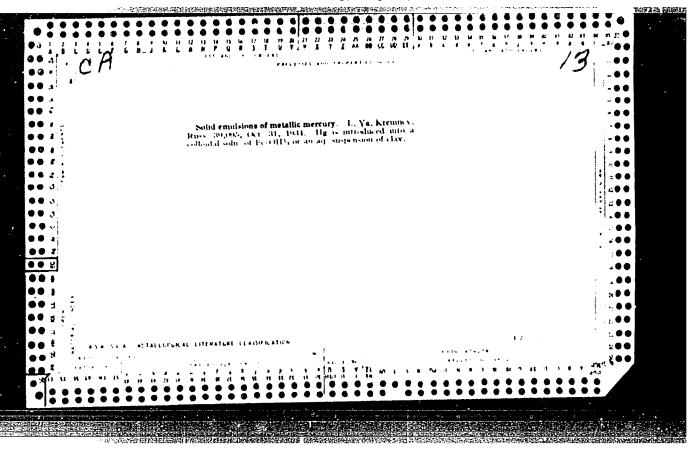
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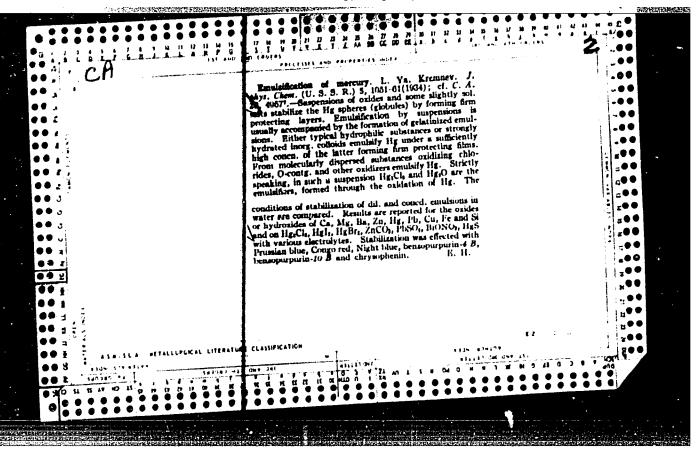
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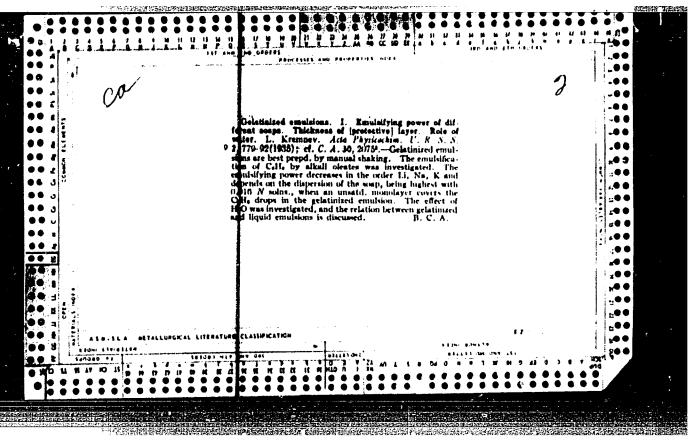


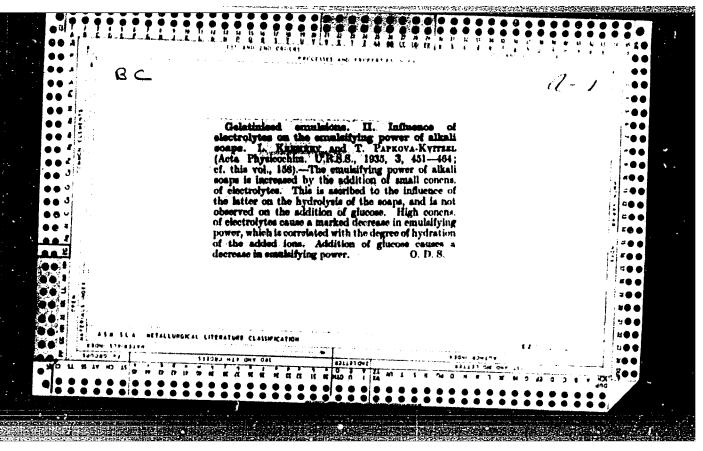


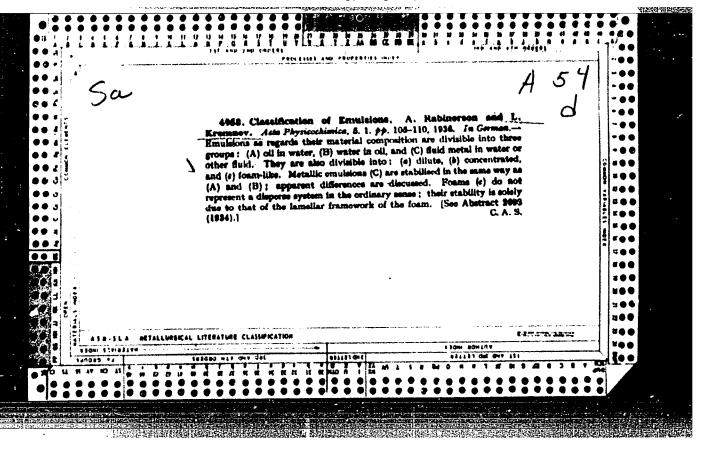
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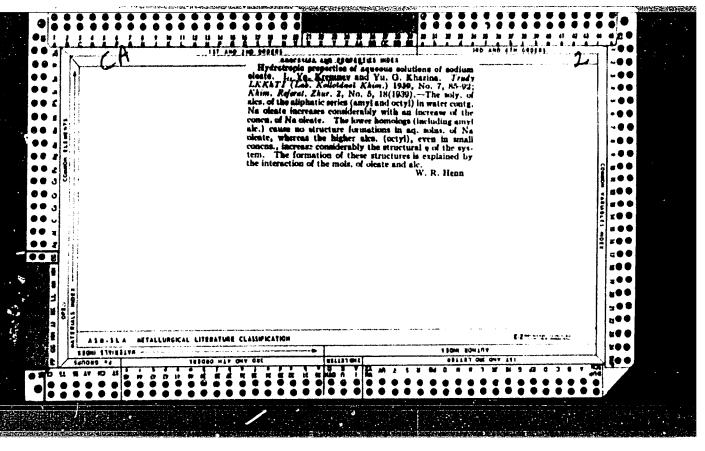
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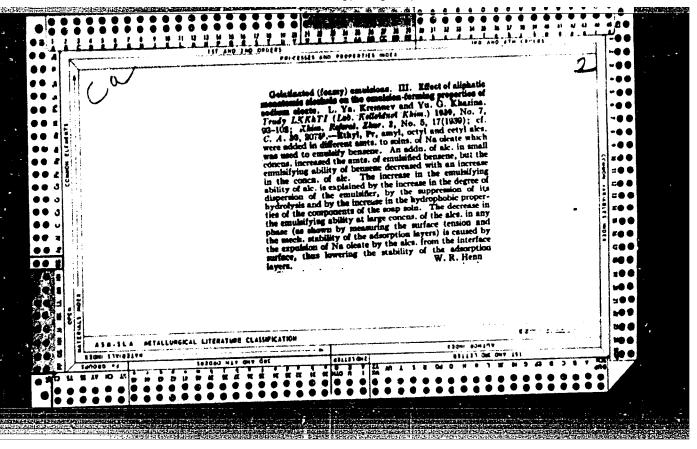


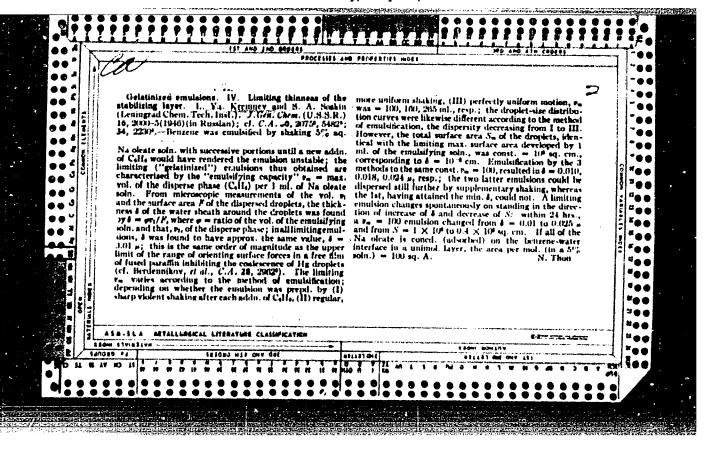






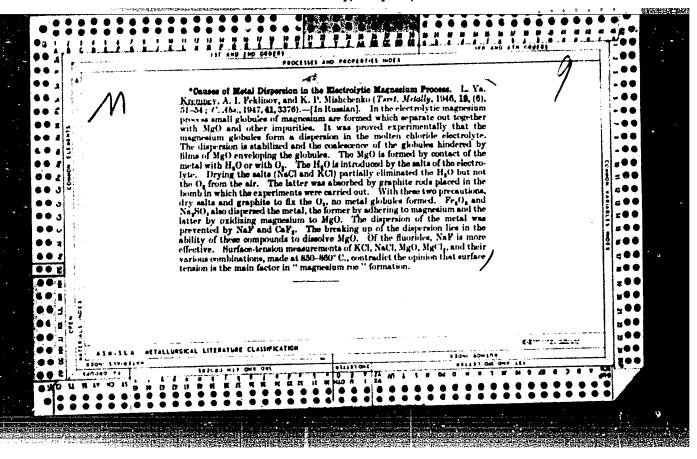


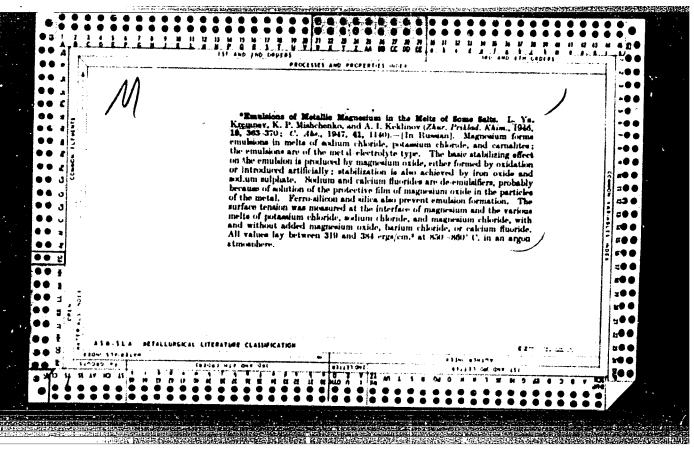


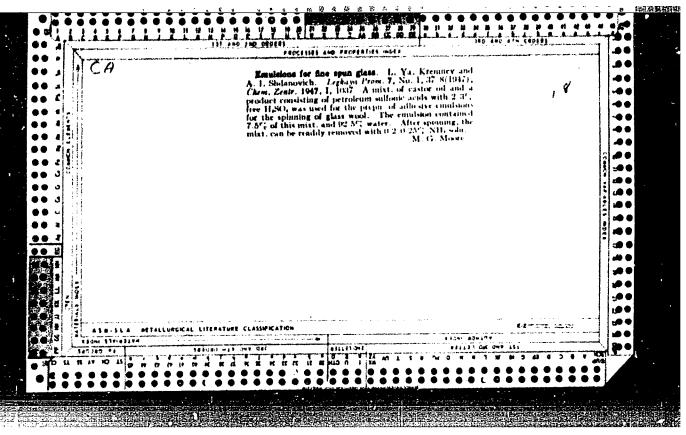


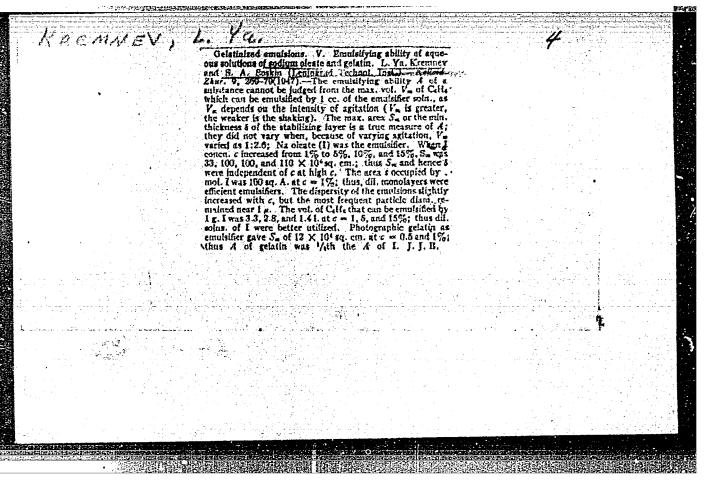
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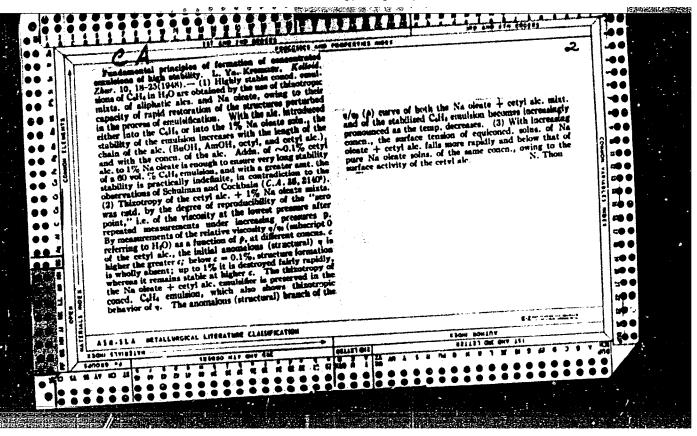
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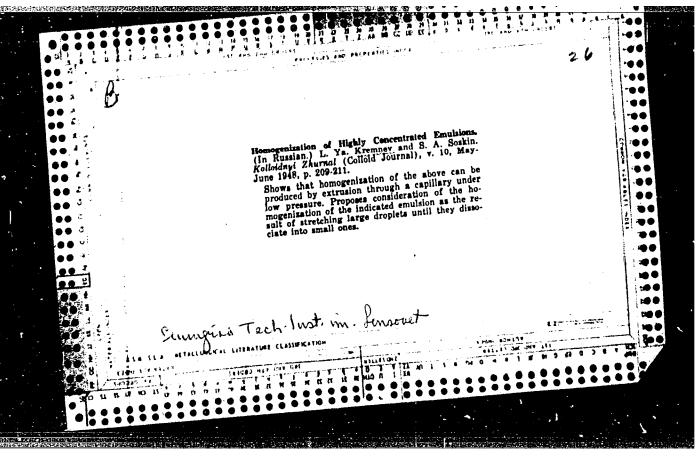




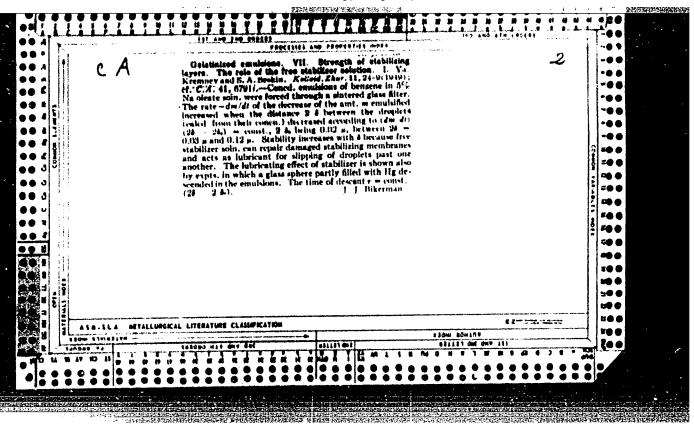


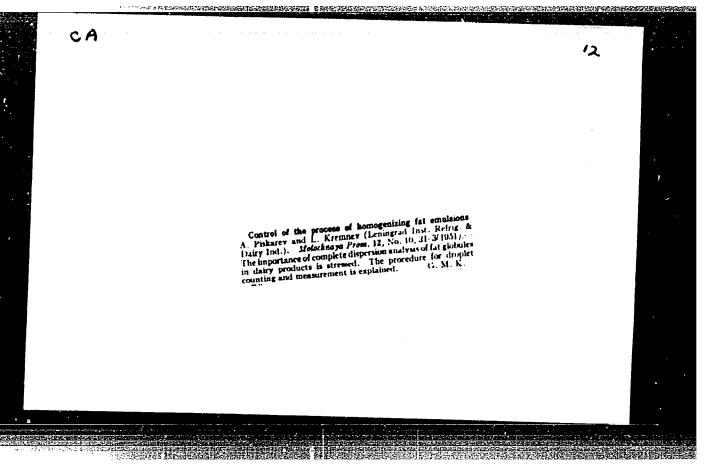


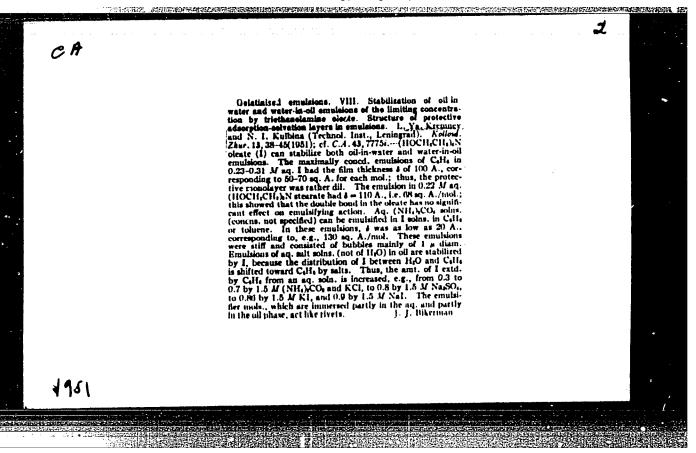


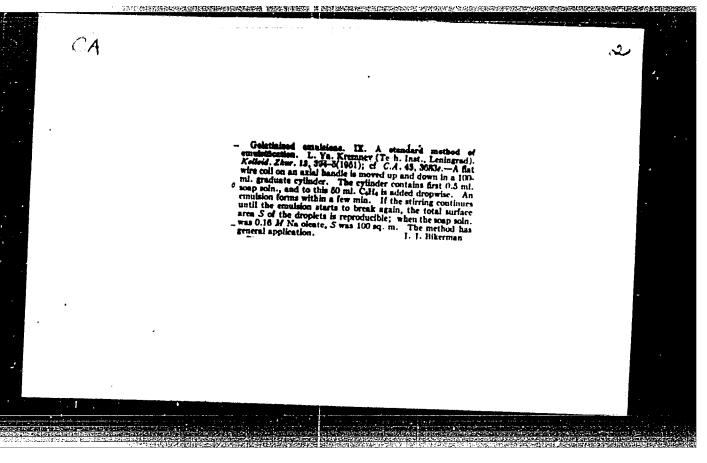


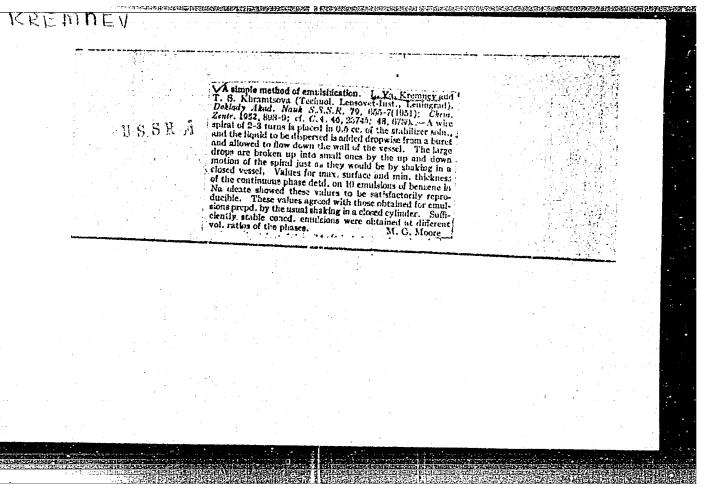
KREMMEY, L. YA.		DOLLARS TO LOCATE LANGUAGE STORE STO	PA 65/49T8
	67) 378	Study determines the critical width of protective water layers in saturated, concentrated emulsions stabilized by cleates of sodium, calcium, rubidium, and cesium. Establishes the emulsive capacity of alkali cleates by determining the maximum surface Scot, generated by one on m of stabilizer solution during the formation of such emulsions. Boaps are located in the following series (the emulsive capacity of sodium cleate being used as unity): Cleates Na: E: Rb: Cs = 1: 2: 2.85: 5.0. Submitted 2 Oct 47.	URER/Chemistry - Soaps Tenisions, G. "Gelstinized Emulsions: VI, Emulsified Mature of Cleates Rubidium and Cesium," L. Ya. I Chair of Colloid Chem, Lening imeni Lensovet, hg pp











Kerotkev A.G.; Miriteor, A.S.; Kermerv, L.A.

Froducing molds from cand-may mixtures by the high pressure method. Trakt. I sel'khozmash. Ji no.17.39.44.11 (6).

(MIRA 14:12)

1. Nauchno-desiedovatel'akty institut tekhnologii i traktornogo i cel'skokhozyayatvemogo machinostroyeniya.

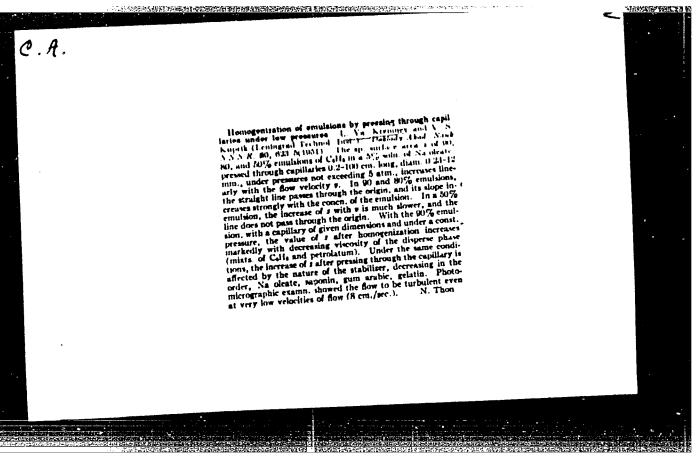
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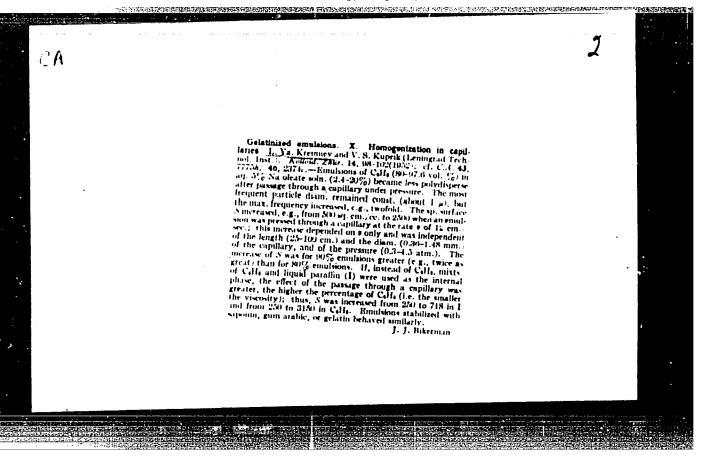
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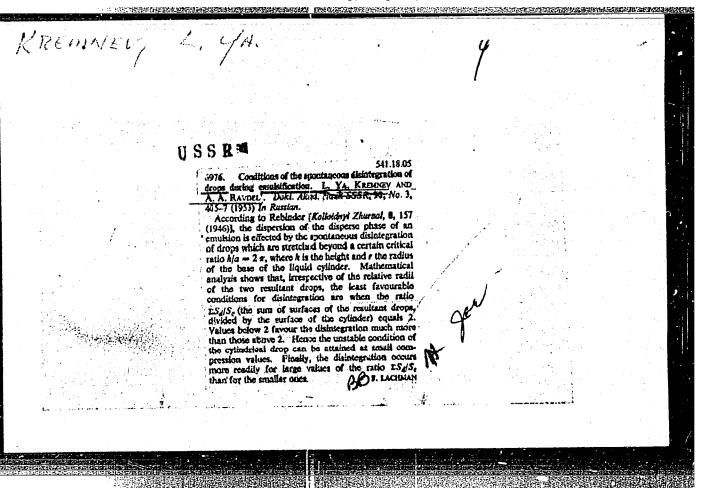


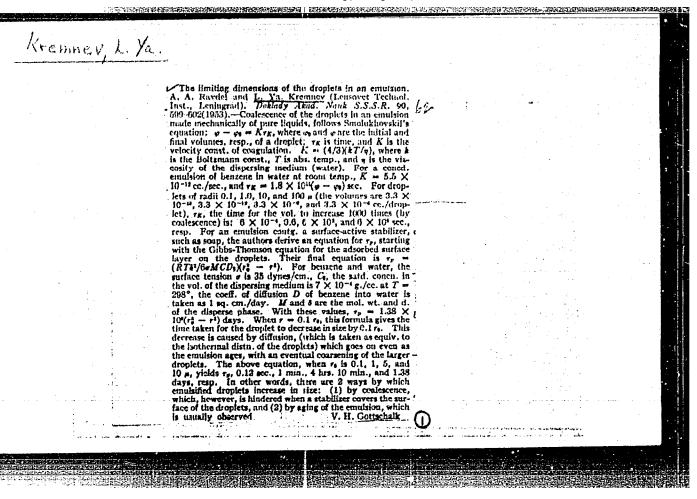
RAVDEL', A.A.; KREMEV, L.Ya.; RESINDER, P.A., akademik.

Boundary dimensions of droplets in emulsions. Dokl.AN SSSR no.4:599-602

Je '53.

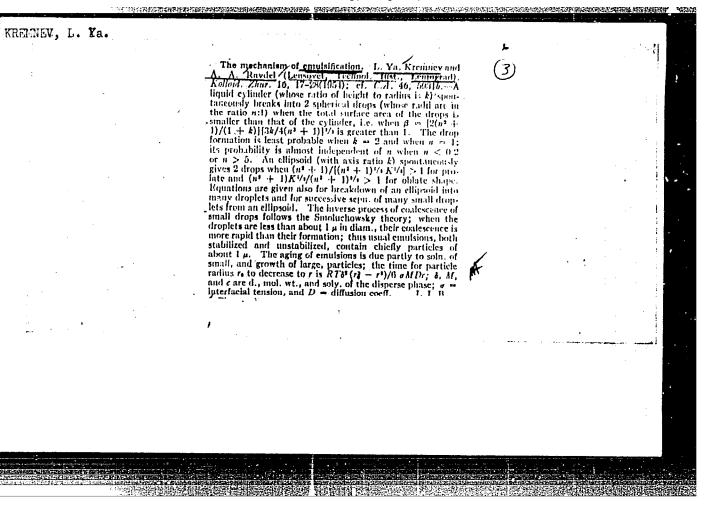
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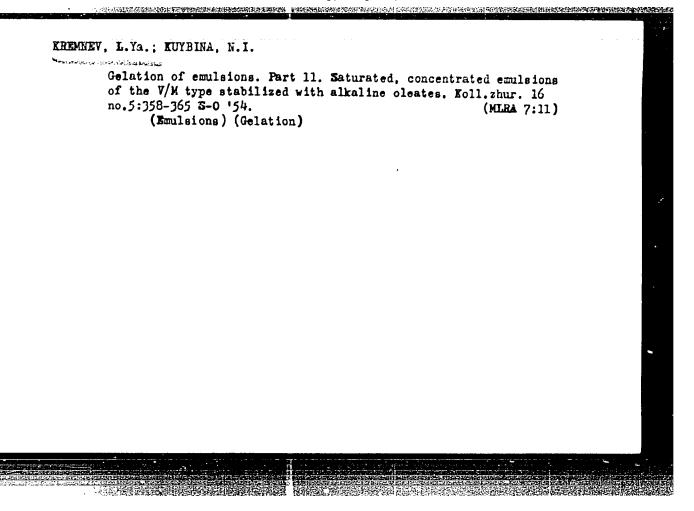


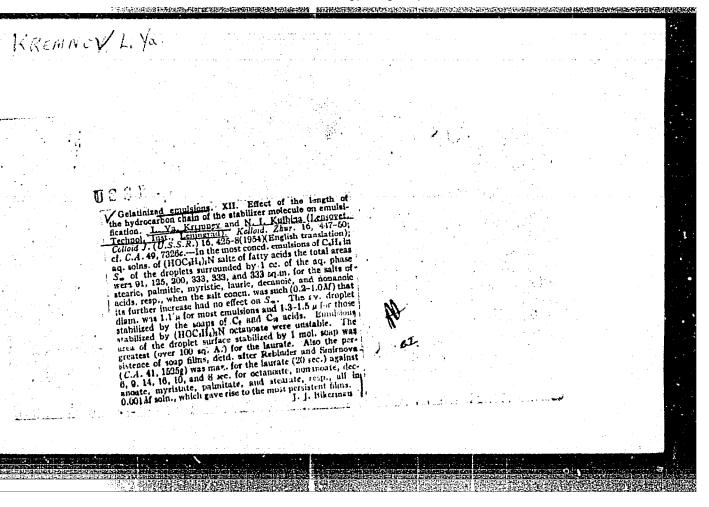


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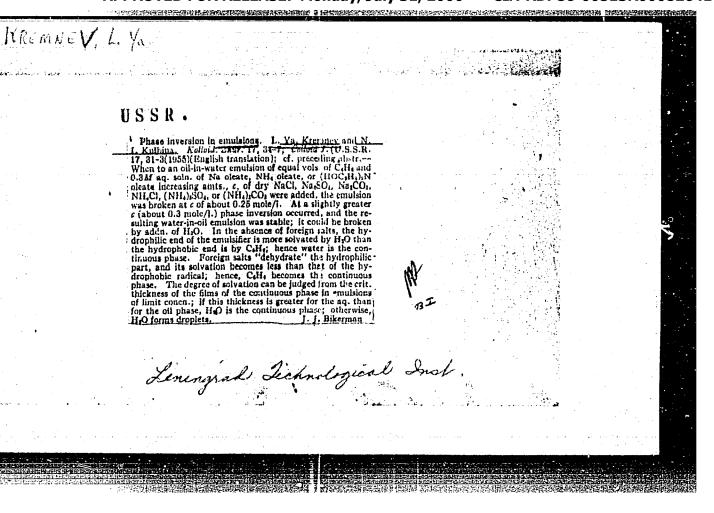






"The Emulsification Nechanism and the Problem of Forming High Dispersion Stable Emulsions." Dr Chem Sci, Chair of Colloid Chemistry, Leningrad Technological Instinent Leningrad Council, Him Higher Education USCR, Leningrad, 1955. (KL, No 1h, Apr 55)

So: Sum. No. 70h, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).



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CIA-RDP86-00513R000826410

in KEMAEL, LIYA

USSR/Colloid Chemistry. Dispersion Systems

B-14

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26413

: L. Ya. Kremnev, S. V. Nerpin, N.I. Kuybina

: Academy of Sciences of USSR

: Nature of Aging of Highly Concentrated Emulsions

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Orig Pub : Dokl. AN SSSR, 1956, 109, No 6, 1152-1155

Abstract: The prolonged aging of highly concentrated converse emulsions

(E) of the v/m type stabilized by NH4, Na and triethanolamine oleates was investigated. First, the dispersed liquid begins to separate from the E surface as an unbroken layer, and after a prolonged time the system falls completely to pieces. The drops (D) increase simultaneously in size. In the authors opindon, the drop of the dispersion degree is caused by the isothermal distillation (ID) of tiny drops (RZhKhim, 1954, 339C2) through the thin adsorption-solvate layers separating them from the neighboring drops of a larger size. At this occasion the protection layers break through in the result of their curvature change and of the rise of the Laplace pres-

sure in the process of ID. The large drops on the emulsion

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Author

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Title